

Isotopes Worksheet

1. What is an isotope? _____

2. What does the number next to isotopes signify? _____

3. How can you tell isotopes apart? _____

For each of the following isotopes, write the number of protons, neutrons, and electrons.

	Chromium-58	Chromium-63
# of protons		
# of neutrons		
# of electrons		

	Carbon-12	Carbon-16
# of protons		
# of neutrons		
# of electrons		

	Nitrogen-15	Nitrogen-20
# of protons		
# of neutrons		
# of electrons		

	Sulfur-23	Sulfur-25
# of protons		
# of neutrons		
# of electrons		

	Sodium-12	Sodium-20
# of protons		
# of neutrons		
# of electrons		

	Selenium-30	Selenium-35
# of protons		
# of neutrons		
# of electrons		

Fill in the isotope names and any missing information, including isotope numbers from the chart. Use your periodic table and the information provided.

# of protons	25	
# of neutrons	17	15
# of electrons		

# of protons	32	
# of neutrons	30	32
# of electrons		

# of protons		
# of neutrons	48	51
# of electrons		46

# of protons		
# of neutrons	113	111
# of electrons	55	

	Iron-	Iron-
# of protons		
# of neutrons	27	30
# of electrons		

	Iodine-	Iodine-
# of protons		
# of neutrons	32	35
# of electrons		

	Germanium-	Germanium-
# of protons		
# of neutrons	33	36
# of electrons		

	-10	-12
# of protons		6
# of neutrons		
# of electrons	6	

	-22	-25
# of protons		
# of neutrons		
# of electrons	11	

	-54	-56
# of protons	24	
# of neutrons		
# of electrons		